

IN THE CLAIMS

1. (Currently amended) A liquid cooling jacket,
comprising:

a base bonded to a heating element;

a post standing perpendicularly to said base;

a plurality of radiating fins attached to said post and
arranged at a distance so as to be parallel to said base;

~~a partition filling up intervals between said plurality
of radiating fins at a predetermined width; and~~

a case which surrounds said post and said radiating fins
and which is bonded to said base, and to which an inlet and an
outlet for coolant are attached ~~at positions where flow of
said coolant is divided by said partition~~ in a peripheral
direction; and

a single radial partition filling intervals between said
plurality of radiating fins radially from said post to said
case, so as to separate said inlet and said outlet for
coolant,

wherein said partition defines an end portion of a
coolant passage defined by said base, said radiating fins,
said case, and said post.

2. (Original) The liquid cooling jacket according to claim 1, wherein said post is columnar, and said radiating fins are concentric with said post.

3. (Original) The liquid cooling jacket according to claim 1, wherein

said post is in contact with a top face of said case to transmit heat of said post to said top face.

4. (Original) The liquid cooling jacket according to claim 2, wherein

said post is in contact with a top face of said case to transmit heat of said post to said top face.

5. (Original) The liquid cooling jacket according to claim 3, wherein

an air-cooling heat sink is attached to the top face of said case.

6. (Original) The liquid cooling jacket according to claim 4, wherein

an air-cooling heat sink is attached to the top face of said case.

7. (Original) The liquid cooling jacket according to claim 1, wherein

said post has a function of a heat pipe.

8. (Original) The liquid cooling jacket according to claim 2, wherein

said post has a function of a heat pipe.

9. (Original) The liquid cooling jacket according to claim 3, wherein

said post has a function of a heat pipe.

10. (Original) The liquid cooling jacket according to claim 4, wherein

said post has a function of a heat pipe.

11. (Original) The liquid cooling jacket according to claim 5, wherein

said post has a function of a heat pipe.

12. (Original) The liquid cooling jacket according to claim 6, wherein

said post has a function of a heat pipe.

13. (New) A liquid cooling jacket, comprising:
a base bonded to a heating element;
a post standing perpendicularly to said base;
a radiating fin attached to said post to define a spiral passage; and
a case which surrounds said post and said radiating fin and which is bonded to said base, and to which an inlet and an outlet for coolant are attached on upper and lower sides in a direction perpendicular to said base.

14. (New) The liquid cooling jacket according to claim 13, wherein said post is columnar, and said radiating fin is concentric with said post.

15. (New) The liquid cooling jacket according to claim 13, wherein said post has a function of a heat pipe.